

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2010; month=1; day=19; hr=9; min=21; sec=10; ms=815;]

=====

Application No: 10568707

Version No: 2.0

Input Set:**Output Set:****Started:** 2009-12-30 18:59:14.373**Finished:** 2009-12-30 18:59:16.170**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 797 ms**Total Warnings:** 50**Total Errors:** 0**No. of SeqIDs Defined:** 63**Actual SeqID Count:** 63

| Error code | Error Description |
|------------|---|
| W 213 | Artificial or Unknown found in <213> in SEQ ID (9) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (10) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (11) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (12) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (13) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (15) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (16) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (17) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (20) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (21) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (22) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (23) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (24) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (25) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (26) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (27) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (28) |

Input Set:

Output Set:

Started: 2009-12-30 18:59:14.373
Finished: 2009-12-30 18:59:16.170
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 797 ms
Total Warnings: 50
Total Errors: 0
No. of SeqIDs Defined: 63
Actual SeqID Count: 63

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Yarden, Yosef
Amit, Ido
Yakir, Liat

<120> POLYNUCLEOTIDES, POLYPEPTIDES AND ANTIBODIES AND USE THEREOF IN
TREATING TSG101-ASSOCIATED DISEASES

<130> 31570

<140> 10568707

<141> 2006-12-14

<160> 63

<170> PatentIn version 3.5

<210> 1

<211> 2893

<212> DNA

<213> Homo sapiens

<400> 1

| | |
|---|------|
| ggcacgagga tcaggaaggg ggtgcaagag ggtagtgat tggggagcag aaggggtcct | 60 |
| aaagatcgct ctgggaaaag ggaaggatgc cgctcttctt ccggaagcgg aaaccagtg | 120 |
| aggaggctcg gaaacgcctg gagtaccaga tgtgtttggc aaaagaagct ggggcagatg | 180 |
| acattctcga catctctaaa tgtgagctct cagagattcc atttgagct tttgcaacat | 240 |
| gcaaagttct gcagaagaag gtgtgatcg tccacacgaa tcacctcaact tcctgcttc | 300 |
| ccaaatcctg cagcctcctg agtctggcaa ccattaaggt tctagatctc cagcataatc | 360 |
| agctgacagc ccttcctgac gatctggggc agtgactgc cctccaggtc ttaaactgg | 420 |
| aaaggaatca actgatgcag ctcccacgtt ccattgggaa cctgaccag ctccagactc | 480 |
| tcaatgttaa agacaacaag ctgaaggagc ttccagacac cgtgggggag cttcgaagcc | 540 |
| tgcgtaccct caacatcagt ggaaacgaga tccagagatt gccgcagatg ctggctcacg | 600 |
| ttcgaaccct ggagatgctg agccttgacg cctcggccat ggtctaccog ccgcgggagg | 660 |
| tgtgtggtgc cggcactgcg gccatcttgc agttcctctg caaagagtca gggctggaat | 720 |
| actaccccc ttctcagtac ttgtgcca ttctggagca agatggaatc gagaactctc | 780 |
| gggacagccc tgatgggccc acggacagat tctcaaggga ggagttagag tggcagaaca | 840 |
| ggttctcaga ctatgagaag aggaaggaac agaagatgct ggagaaactc gagtttgaac | 900 |
| ggcgcctgga actggggcag cgggagcaca ccagctcct tcagcagagc agcagccaga | 960 |
| aggatgagat ccttcagacg gtcaaggagg agcagtcccg gctggagcag ggctgagtg | 1020 |

| | |
|--|------|
| agcaccagcg ccacctcgac gcagagcggc agcggctgca ggagcagctg aagcagacgg | 1080 |
| aacagaacat ttccagccgg atccagaagc tgctgcagga caatcagaga caaaagaaaa | 1140 |
| gctccgagat tttgaaatcg ctggaaaatg aaagaataag aatggaacag ttgatgtcca | 1200 |
| taaccagga ggagactgag agcctgcggc gacgtgacgt tgctccgcc atgcagcaga | 1260 |
| tgctgactga gagctgtaag aaccggctca tccagatggc ctacgaatct cagaggcaga | 1320 |
| acttggcca gcaggcctgt tccagcatgg ccgaaatgga tgaacgattc cagcagattc | 1380 |
| tgtcgtggca gcaaattgat cagaacaaag ccatcagcca gatcctgcag gagagcgcga | 1440 |
| tgcagaaggc tgcgttcgag gcaactccagg tgaagaaaga cctgatgcat cggcagatca | 1500 |
| ggagccagat taagttaata gaaactgagt tattgcagct gacacagctg gagttaaaaga | 1560 |
| ggaagtcctt ggacacagag tcaactccagg agatgatctc ggagcagcgc tgggccctca | 1620 |
| gctccctgct ccagcagctg ctcaaagaga agcagcagcg agaggaagag ctccgggaaa | 1680 |
| tcttgacgga gttagaagcc aaaagtgaaa ccaggcagga aaattactgg ctgattcagt | 1740 |
| atcaacggct tttgaaccag aagcccttgt ccttgaagct gcaagaagag gggatggagc | 1800 |
| gccagctggt ggccctcctg gaggagctgt cggtgagca ctacctgcc atctttgcgc | 1860 |
| accaccgcct ctcaactggac ctgctgagcc aaatgagccc aggggacctg gccaaggtgg | 1920 |
| gcgtctcaga agctggcctg cagcacgaga tcctccggag agtccaggaa ctgctggatg | 1980 |
| cagccaggat ccagccagag ctgaaaccac caatgggtga ggtcgtcacc cctacggccc | 2040 |
| cccaggagcc tctgagtct gtgaggccat ccgctcccc tgcagagctg gaggtgcagg | 2100 |
| cctcagagtg tgtcgtgtgc ctggaacggg aggccagat gatcttcctc aactgtggcc | 2160 |
| acgtctgctg ctgccagcag tgetgccagc cactgcgcac ctgcccgtg tgccgccagg | 2220 |
| acatgccca gcgcctccgc atctaccaca gcagctgagt gctgcccgcc cacctgggcc | 2280 |
| tggtcctagc cctgcctcgg ccaactgtgag ccccgggctc ctgctcagcc ttgtgccagc | 2340 |
| cagactcgta tgaggtccc cctgccttg ggccttcc ccaactgcca ggagccccca | 2400 |
| tcctaagctc caagcatgtc tgggccaggc agaggtgctc ctcatccatg acaccaccag | 2460 |
| tctgaatggt cctgggggct ggggctggag aggccgtgc accaccacc gagcctggga | 2520 |
| gccagcgtcc cagcctaatc acggatctgc tgctcccag ctgtcttgac tgaaggccac | 2580 |
| cgccttgca ggagcttggg tcctcatctg ggggcatgc acaggccgt cccaccctgc | 2640 |
| atgtgggaag ggagcaggag ggctggctg ggtgagggga ggccttcctg ggaaggcgtg | 2700 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tggtgcaggc | ctgtgtcac | agtggcacca | gcaaccctgg | gtctccctct | ctgtgtctcc | 2760 |
| ccagaacccc | ggggccctcc | tgtctccac | aactgtccct | ccttacccca | tgtagtctga | 2820 |
| tccgaagcag | gagtgtcaat | aaacctgtct | tcagtgcgaa | aaaaaaaaaa | aaaaaaaaaa | 2880 |
| aaaaaaaaaa | aaa | | | | | 2893 |

Met Pro Leu Phe Phe Arg Lys Arg Lys Pro Ser Glu Glu Ala Arg Lys
1 5 10 15

Phe Ala Thr Cys Lys Val Leu Gln Lys Lys Val Leu Ile Val His Thr
50 55 60

Pro Asp Asp Leu Gly Gln Leu Thr Ala Leu Gln Val Leu Asn Val Glu
100 105 110

Thr Val Gly Glu Leu Arg Ser Leu Arg Thr Leu Asn Ile Ser Gly Asn
145 150 155 160

| | | |
|---|-----|-----|
| 165 | 170 | 175 |
| Met Leu Ser Leu Asp Ala Ser Ala Met Val Tyr Pro Pro Arg Glu Val | | |
| 180 | 185 | 190 |
| Cys Gly Ala Gly Thr Ala Ala Ile Leu Gln Phe Leu Cys Lys Glu Ser | | |
| 195 | 200 | 205 |
| Gly Leu Glu Tyr Tyr Pro Pro Ser Gln Tyr Leu Leu Pro Ile Leu Glu | | |
| 210 | 215 | 220 |
| Gln Asp Gly Ile Glu Asn Ser Arg Asp Ser Pro Asp Gly Pro Thr Asp | | |
| 225 | 230 | 235 |
| Arg Phe Ser Arg Glu Glu Leu Glu Trp Gln Asn Arg Phe Ser Asp Tyr | | |
| 245 | 250 | 255 |
| Glu Lys Arg Lys Glu Gln Lys Met Leu Glu Lys Leu Glu Phe Glu Arg | | |
| 260 | 265 | 270 |
| Arg Leu Glu Leu Gly Gln Arg Glu His Thr Gln Leu Leu Gln Gln Ser | | |
| 275 | 280 | 285 |
| Ser Ser Gln Lys Asp Glu Ile Leu Gln Thr Val Lys Glu Glu Gln Ser | | |
| 290 | 295 | 300 |
| Arg Leu Glu Gln Gly Leu Ser Glu His Gln Arg His Leu Asp Ala Glu | | |
| 305 | 310 | 315 |
| Arg Gln Arg Leu Gln Glu Gln Leu Lys Gln Thr Glu Gln Asn Ile Ser | | |
| 325 | 330 | 335 |
| Ser Arg Ile Gln Lys Leu Leu Gln Asp Asn Gln Arg Gln Lys Lys Ser | | |
| 340 | 345 | 350 |
| Ser Glu Ile Leu Lys Ser Leu Glu Asn Glu Arg Ile Arg Met Glu Gln | | |
| 355 | 360 | 365 |
| Leu Met Ser Ile Thr Gln Glu Glu Thr Glu Ser Leu Arg Arg Arg Asp | | |
| 370 | 375 | 380 |
| Val Ala Ser Ala Met Gln Gln Met Leu Thr Glu Ser Cys Lys Asn Arg | | |
| 385 | 390 | 395 |
| | | 400 |

Leu Ile Gln Met Ala Tyr Glu Ser Gln Arg Gln Asn Leu Val Gln Gln
405 410 415

Ala Cys Ser Ser Met Ala Glu Met Asp Glu Arg Phe Gln Gln Ile Leu
420 425 430

Ser Trp Gln Gln Met Asp Gln Asn Lys Ala Ile Ser Gln Ile Leu Gln
435 440 445

Glu Ser Ala Met Gln Lys Ala Ala Phe Glu Ala Leu Gln Val Lys Lys
450 455 460

Asp Leu Met His Arg Gln Ile Arg Ser Gln Ile Lys Leu Ile Glu Thr
465 470 475 480

Glu Leu Leu Gln Leu Thr Gln Leu Glu Leu Lys Arg Lys Ser Leu Asp
485 490 495

Thr Glu Ser Leu Gln Glu Met Ile Ser Glu Gln Arg Trp Ala Leu Ser
500 505 510

Ser Leu Leu Gln Gln Leu Leu Lys Glu Lys Gln Gln Arg Glu Glu Glu
515 520 525

Leu Arg Glu Ile Leu Thr Glu Leu Glu Ala Lys Ser Glu Thr Arg Gln
530 535 540

Glu Asn Tyr Trp Leu Ile Gln Tyr Gln Arg Leu Leu Asn Gln Lys Pro
545 550 555 560

Leu Ser Leu Lys Leu Gln Glu Glu Gly Met Glu Arg Gln Leu Val Ala
565 570 575

Leu Leu Glu Glu Leu Ser Ala Glu His Tyr Leu Pro Ile Phe Ala His
580 585 590

His Arg Leu Ser Leu Asp Leu Leu Ser Gln Met Ser Pro Gly Asp Leu
595 600 605

Ala Lys Val Gly Val Ser Glu Ala Gly Leu Gln His Glu Ile Leu Arg
610 615 620

Arg Val Gln Glu Leu Leu Asp Ala Ala Arg Ile Gln Pro Glu Leu Lys
625 630 635 640

Pro Pro Met Gly Glu Val Val Thr Pro Thr Ala Pro Gln Glu Pro Pro
645 650 655

Glu Ser Val Arg Pro Ser Ala Pro Pro Ala Glu Leu Glu Val Gln Ala
660 665 670

Ser Glu Cys Val Val Cys Leu Glu Arg Glu Ala Gln Met Ile Phe Leu
675 680 685

Asn Cys Gly His Val Cys Cys Cys Gln Gln Cys Cys Gln Pro Leu Arg
690 695 700

Thr Cys Pro Leu Cys Arg Gln Asp Ile Ala Gln Arg Leu Arg Ile Tyr
705 710 715 720

His Ser Ser

<210> 3
<211> 2044
<212> DNA
<213> Mus musculus

<400> 3
cttggtttct agaatctcga gactttgtca tcttgagttg cgtgtctttc tgaaatttaa 60
agtttcggtg ctcacttcta tgtttgaagg agaccggaca ccagctcagc ttttgggggc 120
caatggtttg tatctgtggc caagtcttcg gagtgactgg cctaccttga ggtccacca 180
agaatcggaa catcggtgga ggacctcccc atccacagag ccagggtcca gaagagctca 240
caccggagga tgcccctctt ctttcggaag cggaaaccca gtgaggagge tcgaaaacgc 300
ctggagtacc agatgtgtct ggcaaaagaa gctggggcag atgacattct cgacatctct 360
aaatgtgagc tctctgagat tccatttggg gcttttgcaa cgtgcaaagt tctacagaaa 420
aaggtgttga ttgtccatac aaaccacctc acctccctgc ttccaagtc ctgcagcctc 480
ttgagccttg tcaccatcaa ggttctggat ctccatgaga accagctgac agcccttcct 540
gatgacatgg ggcagctgac agtcctgcag gtattgaatg tggaaagaaa tcaactcacg 600
catctccctc gctctattgg gaacctgctg cagctccaga cgctcaatgt aaaagacaac 660

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| aagctgaag | agcttcctga | cacctg | gagctgcgga | gcctgcggac | actcgacatt | 720 |
| agtgagaac | agattcagag | acttccccag | atgctggcgc | acgtgcggac | cctggagacg | 780 |
| ctgagcctca | acgccttggc | aatggtctac | ccccaccag | aggtgtgtgg | cgctggcact | 840 |
| gcgccgtgc | agcagttcct | ctgcaaagag | tcaggactgg | actattaccc | accttctcag | 900 |
| tacctgctgc | cagtcttga | gcaagatgga | gcagagaaca | cccaagacag | ccccgatgga | 960 |
| cccgcaagcc | gattctccag | ggaggaggct | gaatggcaga | atcggttctc | cgactacgag | 1020 |
| aagcggaag | agcagaagat | gctggagaag | ctggagtctg | agcggcgct | ggaccttggg | 1080 |
| cagcgggagc | acgctgagct | actgcagcag | agccacagcc | acaaggacga | gacctgcag | 1140 |
| acggtcaagc | aggagcagac | acggctagag | caggacctga | gcgagcgcca | gcgctgtctg | 1200 |
| gatgcagagc | ggcagcagct | gcaggagcag | ctcaagcaga | cggagcagag | catcgccagc | 1260 |
| cgcattcaga | gactcctgca | ggacaaccag | aggcaaaaga | agagttctga | gattctgaaa | 1320 |
| tcgctggaga | atgagagaat | aagaatggag | cagttgatgt | ccatcaccca | ggaggagaca | 1380 |
| gagaacctca | ggcagcgtga | gacgcgcc | gccatgcagc | agatgctgac | ggagagctgt | 1440 |
| aagagccggc | tcatccagat | ggcctatgag | tctcagaggc | agagcctggc | gcagcaggcc | 1500 |
| tgttccagca | tggtgaaat | ggacaagcgg | ttccagcaga | ttctgtcttg | gcagcagatg | 1560 |
| gacagaaca | aagccatcag | ccagatcctt | caggagagtg | taatgcagaa | ggctgccttc | 1620 |
| gaggctctcc | aggtgaagaa | ggacctgatg | catcggcaga | tcaggaacca | gattaggcta | 1680 |
| atagaaactg | agttactgca | gctgacacag | ctggagttaa | agaggaagtc | cctggacaca | 1740 |
| gagacgcttc | aggagatggg | ctcagagcag | cgctgggcac | tcagcaacct | gctccagcag | 1800 |
| ctcctgaaag | agaagaagca | gcgggaagag | gaactccatg | gcacctggc | ggaattagag | 1860 |
| gccaagagcg | aaacgaagca | ggaaaattac | tggtcatcc | agtaccaacg | gcttttaaac | 1920 |
| cagaagcctt | tgtccttgaa | actgcaggaa | gaaggcatgg | agcgacggct | ggtggccctg | 1980 |
| ctggtggagc | tttctgcaga | gcactacctg | ccctcttcg | cccaccacg | catctcactg | 2040 |
| gaca | | | | | | 2044 |

<210> 4
 <211> 116
 <212> PRT
 <213> Mus musculus

<400> 4

Met Phe Glu Gly Asp Arg Thr Pro Ala Gln Leu Leu Gly Ala Asn Gly

| | | | |
|---|-----|-----|----|
| 1 | 5 | 10 | 15 |
| Leu Tyr Leu Trp Pro Ser Leu Arg Ser Asp Trp Pro Thr Leu Arg Ser | | | |
| 20 | 25 | 30 | |
| Thr Gln Glu Ser Glu His Arg Trp Arg Thr Ser Pro Ser Thr Glu Pro | | | |
| 35 | 40 | 45 | |
| Gly Ser Arg Arg Ala His Thr Gly Gly Cys Pro Ser Ser Phe Gly Ser | | | |
| 50 | 55 | 60 | |
| Gly Asn Pro Val Arg Arg Leu Glu Asn Ala Trp Ser Thr Arg Cys Val | | | |
| 65 | 70 | 75 | 80 |
| Trp Gln Lys Lys Leu Gly Gln Met Thr Phe Ser Thr Ser Leu Asn Val | | | |
| 85 | 90 | 95 | |
| Ser Ser Leu Arg Phe His Leu Gly Leu Leu Gln Arg Ala Lys Phe Tyr | | | |
| 100 | 105 | 110 | |
| Arg Lys Arg Cys | | | |
| 115 | | | |

<210> 5
 <211> 2971
 <212> DNA
 <213> Rattus norvegicus

| | |
|--|-----|
| <400> 5 | |
| ggtccagaag aactctcgca ggaggatgcc tctcttcttt cggaagcggg aaccagtgga | 60 |
| ggaagctcgg aaacgcctgg agtaccagat gtgtctggca aaagaagctg gggcagatga | 120 |
| catccttgac atctctaagt gcgagctttc cgagattcca tttggggctt ttgcaacgtg | 180 |
| caaagttcta cagaaaaagg tgttgattgt ccacacaaac catctcacct cctgctgcc | 240 |
| caagtcctgc agcctcttga gcctcgccac catcaagggt ctggatctcc atgacaacca | 300 |
| gctgacagcc cttctgacg atattgggca gctgacagcc ctgcaggtat tgaatgtaga | 360 |
| aaggaatcaa ctgacacacc tcccacgtc tgttggaac ctgtgcagc tccagaccct | 420 |
| caacgtaaaa ggtggggaca caagcctgt gcacgttacc ctgaggcaac tccagagtca | 480 |
| ggccaccgag tgtgaggggtg acggatcagt ctgtctccat ggcaaccaga agcagtatgt | 540 |
| ctatgagccc gagagtcaga gacttggtgg gcagaagaca gacagacaga ccatcacagt | 600 |

| | |
|--|------|
| gacagaacga gacaacaagc taaaggagct tccggacacc ctgggggagc tgcggagcct | 660 |
| gcgtaccctc gacatcagtg aaaatgagat ccagagactt ccccagatgc tggctcatgt | 720 |
| gcggaccctg gagatgggtc tgaacaaccc tgtggctgtc acctctgcaa agcttagtat | 780 |
| ttgtcacagt ggtaacaacc tggecgagca tcccagtecc cgtcccccct gcttttgtga | 840 |
| atcacccctg tcaagccaga ctgaggagca gcagtgtctg gggaagtggc agacgctgag | 900 |
| cctcgatgcc ttgtcaatgg tctaccccc accagaggtg tgtggcgctg gcactgcggc | 960 |
| cgtgcagcag ttctctgca aagagtcagg cctggactat taccacctt ctcagtacct | 1020 |
| gctgccagtc ctggagcaag atggagccga gaactcccag gacagccctg atggaccac | 1080 |
| acgcagattc tccagggagg aggtgaatg gcagaatcgg ttctccgact acgagaagcg | 1140 |
| aaaggagcag aagatgctgg agaagctgga gttcgagcgg cgcttgacc tcgggcagcg | 1200 |
| ggagcatgct gagctgctcc agcagagcca cagccacaag gacgagatcc tgcagacggt | 1260 |
| caagcaggag cagacacggc tcgagcaggg cctgagttag cgccagcgtt gcttgatgc | 1320 |
| agaacggcag cagctgcagg agcagctcaa gcagtcggag cagagcattg ccagccgcat | 1380 |
| ccagagactc ctgcaggaca atcagaggca aaagaagagt tctgagattc tgaaatcact | 1440 |
| ggagaatgag agaatacgaa tggagcagct gatgtccatt acccaggagg agaccgagaa | 1500 |
| cctcaggcag cgtgagatcg ccgccgccat gcagcagatg ctgaccgaga gctgtaagag | 1560 |
| ccggctcatc cagatggcct atgagtccca gaggcagagc ctggtgcagc aggcctgttc | 1620 |
| cagcatggct gaaatggaca agcggttcca gcagattctg tcatggcagc agatggacca | 1680 |
| gaacaaagcc atcagccaga tccttcagga ggctcgaatg ctgcttgcag ttgattacaa | 1740 |
| acacgcgatg tgtccagtcc tgtctttgct gaaggctgtt tcttacaggc aacagcagct | 1800 |
| gaatcccatc ctttttcgtt tagatgtgga gttgaggacc caggactgga ggcccccttt | 1860 |
| tgtccttctg tccctgggtg ttggggctgt cctcgtecca cctgtggttt cgggtgctct | 1920 |
| tctccgtctt cagaatgcca gtcacctggc tgtttgagc cagcgtcatg tggatgtgtc | 1980 |
| agatgagcgt ctgacctcag aacctccgtt gttcatcctc agtgtgatgc agaaggctgc | 2040 |
| attcgaggct ctccaggtaa agaaagacct cacgcacggc cagatcagga gccagattag | 2100 |
| gctaatagaa actgagttac tgcagctgac acagctggag ttaaagagga agtccttggg | 2160 |
| cacagagacg cttcagggcg gctgtctctc agctccagac acaggcttct ccggcacaca | 2220 |
| gagagccggc ccagccccag tagaacagat gtgggtccatg ggcaaaggta gctctgtgca | 2280 |
| gggcgagagg gagatgggtc cagagcagcg ctgggcgctc agcaacctgc tccagcagct | 2340 |

| | |
|---|------|
| cctcaaagag aagaagcagc gggagagga gctccatggc atcctggcgg aattagaggc | 2400 |
| caagagtgaa acgaagcagg aaaattactg gctcatccag taccaacggc ttttgaacca | 2460 |
| gaagcctttg tccttgaagc tgcaggaaga aggcattggag cggcagctgg tggcctgct | 2520 |
| ggcggagctg ttgctgagc actacctgcc cctcttcgcc caccaccgca tcacctgga | 2580 |
| catgctg | |